

**Notice of Allowability**

Application No.

10/512,117

Applicant(s)

COENE, WILLEM MARIE JULIA  
MARCEL

Examiner

LAM T. MAI

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/28/2006.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### DETAILED ACTION

Applicant's amendment/argument filed on 4/28/2006 has been carefully considered and entered.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Michael E. Belk, Reg. 33,357, (914)333-9643 on 8 May 8, 2006.

The application has been amended as follows:

**Claim 1**, line 4, **Delete** "wherein" then **Replace with** "comprising:"

line 5, **Delete** "a user word is encoded" then **Replace with** "Encoding user word".

line 15, **Delete** "the NRZ channel symbols are transcoded" then **Replace with** "Transcoding the NRZ channel symbols".

line 19, **Delete** "said finite-state-machine is put" then **Replace with** "Putting said finite-state-machine".

**Claim 8**, line 4, **Delete** "wherein" then **Replace with** "comprising:"

line 5, **Delete** "the NRZ channel symbols are transcoded" then **Replace with** "Transcoding the NRZ channel symbols".

line 16, **Delete** "the NRZ channel word is decoded" then **Replace with** "Decoding the NRZ channel word".

**Claim 28**, line 4, **Delete** "wherein" then **Replace with** "comprising:".

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**Claim 29**, line 4, **Delete** "wherein" then **Replace with** "comprising:".

**Claim 30**, line 1, **Delete** "Storage medium storing" then **Replace with** "Storing";

line 2, after "claim 1" **Insert** "onto computer readable medium in  
executable form".

**Claim 31**, **Delete the entire claim 31.**

**Specification, page 1, beginning of the page, INSERT** "This application is a  
national phase application based on PCT/IB03/01255, filed on April 01, 2003, the  
content of which is incorporated herein by reference."

### ***Specification***

The lengthy specification has not been checked to the extent necessary to  
determine the presence of all possible minor errors. Applicant's cooperation is  
requested in correcting any errors of which applicant may become aware in the  
specification.

### ***Allowable Subject Matter***

Claims 1-30 are allowable.

The following is an examiner's statement of reasons for allowance: Claim 1 is  
allowed over the prior art of record. The prior art considered individually or in  
combination fails to fairly teach or suggest claimed method comprising among other  
limitation, a novel and unobvious limitation of "putting said finite-state-machine into a  
new state selected from said code table depending on said user word and the current  
state of said finite-state-machine together with encoding a user word into a channel

word” structurally and functionally interconnected with other limitations in the manner as cited in the claim and dependent claims 2-7, 11-27, and 30.

Claim 8 is allowed over the prior art of record. The prior art considered individually or in combination fails to fairly teach or suggest claimed method comprising among other limitation, a novel and unobvious limitation of “wherein said next-state of a current channel word of said underlying finite-state-machine is defined by NRZI channel bits of the current channel word and by NRZ channel symbols of the next channel word” structurally and functionally interconnected with other limitations in the manner as cited in the claim and dependent claims 9-10.

Claim 28 is allowed over the prior art of record. The prior art considered individually or in combination fails to fairly teach or suggest claimed apparatus comprising among other limitation, a novel and unobvious limitation of “a state conversion unit putting said finite-state-machine into a new state selected from said code table depending on said user word and the current state of said finite-state-machine together with encoding a user word into a channel word” structurally and functionally interconnected with other limitations in the manner as cited in the claim.

Claim 29 is allowed over the prior art of record. The prior art considered individually or in combination fails to fairly teach or suggest claimed apparatus comprising among other limitation, a novel and unobvious limitation of “wherein said next-state of a current channel word of said underlying finite-state-machine is defined by NRZI channel bits of the current channel word and by NRZ channel symbols of the next

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channel word" structurally and functionally interconnected with other limitations in the manner as cited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Cited References**

The prior art made of record and not replied upon is considered pertinent to application's disclosures. The cited references relate to instant application subject matter.


### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM T. MAI whose telephone number is (571)272-1807. The examiner can normally be reached on 5:30 am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Barnie Rexford can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Lam T. Mai  
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